

ESSE 4610 PROJECT 3:
PROGRAMMING OF GPS NAVIGATION SOLUTION
PROGRESS REPORT 1

Patrick Lasagna, Jason Elliot, Sonal Ranjit, Maker Nizigiimana

PROJECT DESCRIPTION

We will develop software in order to better understand the Standard Positioning Service GPS navigation solution.

PROJECT PLAN

We will stick to the project milestones detailed in the lab handout and will strive to quickly, correctly, and efficiently complete the weekly tasks assigned to us.

PROJECT REQUIREMENTS

We must provide a program that can:

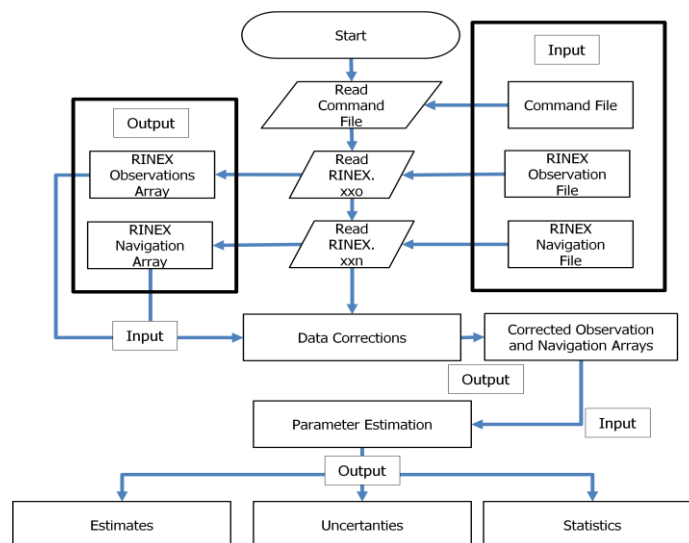
- 1.) Read and Process a RINEX observation file
- 2.) Read and Process a RINEX navigation file
- 3.) Apply ICD-GPS-200C data corrections
- 4.) Estimate receiver coordinates and clock offset using non-linear parametric adjustment

Additional Stipulations Include

-Input parameters from input file or from terminal use

-Output and store estimations, their uncertainties, statistics in a log file

PROGRAM STRUCTURE



WORK BREAKDOWN

Sonal and Patrick

-Software Design

Maker and Jason

-RINEX file format research

-Correction research